

PRINTER RUSH
(PTO ASSISTANCE)

Letter.

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[RUSH] MESSAGE:

In CLM page 1 of 12 (05-04-01)
3rd line refers to replacement pages
1, 9, 10, 11 and 16. - not found in file

Thank you

[XRUSH] RESPONSE:

Corrected

Mark Kachigian

518-587-2000

INITIALS:

PS

NOTE: This form will be included as part of the official USPTO record, with the Response document coded as XRUSH.

REV 10/04

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FACSIMILE COVER SHEET

DATE June 29, 2005
PLEASE DELIVER TO Rori Bursch
COMPANY U.S. Patent and Trademark Office
FROM Mark G. Kachigian
NUMBER DIALED 703-308-6642
SENT BY Tammy Hamm

MESSAGE

As requested, attached is a copy of the replacement pages 1, 9, 10, 15 and 16 of the specification as submitted with the Preliminary Amendment dated May 4, 2001 for U.S. Patent Application No. 09/848,815. If you need anything else, please let us know. Thanks and have a great day!

PLEASE ACKNOWLEDGE RECEIPT OF THIS COMMUNICATION IMMEDIATELY AND LET US KNOW IF YOU HAVE NOT RECEIVED LEGIBLE COPIES OF ALL PAGES. TOTAL PAGES INCLUDING COVER PAGE 6 . THANK YOU.

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Portable Communications Device**CROSS REFERENCE TO RELATED APPLICATIONS**

This application claims priority to British Application Nos. 0010928 filed May 5, 2000; No. 0010929.8 filed May 5, 2000; and No. 0010927.2 filed May 8, 2002

BACKGROUND OF THE INVENTION

The invention which is the subject of this application relates to a communications device, and particularly to a communications device for use with a broadcast data receiver.

Communications devices having broadcast data receivers are known and include televisions and radios. These devices include processing means to process data received from a remote location, and audio and/or visual means to show or sound the processed data to a user. Whilst these devices allow for the communication of information to a user, this communication is only in a single direction. In addition, conventional communication devices are typically large and are not easily movable around a premises, such as a user's home.

SUMMARY OF THE INVENTION

It is therefore an aim of the present invention to provide a communications device which allows a user to both receive data from a remote location and to send data to a remote location.

It is a further aim of the present invention to provide a communications device which is easily portable about a premises.

In a first aspect of the invention there is provided a device which allows for the input of visual, audio and/or auxiliary data, the processing of said data and storage of said data in the device, said device provided with a display screen for the display of said visual data and/or speakers for sounding of said audio data characterised in that said device allows for the selected communication of said visual, audio and/or auxiliary data to and/or from a remote location directly via a broadcast data receiver, or via a broadcast data receiver and then via a communications link, said device being of such a size to be hand held and portable.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

Referring to Figure 1, there is illustrated a device according to the invention in one embodiment. The device 2 includes a housing which is encased a processing means which can include a memory for the storage of data which is input into the device, processing means to allow the data which is input to be stored in an appropriate manner, further processing and decoding means which allows data which is received from a remote location in an encoded format to be decoded and then processed, and a power cell which, typically, is rechargeable and which is provided to allow the device to be used independently of a holder or mains power supply. Also typically provided is a lighting means at the display screen which allows limited back lighting of the display screen 6 so as to improve the ability of the user to view the display material on the screen.

The device is provided to allow the input of data which can be in a number of forms such as, for example, the device may be provided with a barcode reader which allows the device to be placed in the vicinity of barcodes and products, and by reading the same, data relating to the product is input into the device and stored. There may be provided a keypad 4 and "pen" 5, as shown, which allows the user to input data into the device by typing in appropriate codes, words or the like and/or touching the screen with the pen to select displayed functions. The screen 6 also provides information to the user with respect to the operation of the device and other material such as advertisements and the like.

There is typically also provided at least one means of receiving data from a remote location such as, for example, an aerial which will allow, for example, radio broadcast to be received and alternatively, or in addition, the device can be provided to allow connection with a broadcast data receiver or other communication means, not shown, and in which connection can be achieved via a cable

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connection. If a broadcast data receiver is provided, the same is provided to allow the reception of broadcast data from a remote location and, from said data, which is typically transmitted from any of satellite, cable or terrestrial system, a range of television programmes can be made available for selection by the user. In addition, the broadcast data receiver typically includes a further communications link, typically a telecommunications link, to a remote telecommunications network and the device of the invention, in the preferred embodiment, is provided to utilize this telecommunications link to connect to and communicate with the broadcast data receiver to allow the transfer of data to the receiver, perhaps for viewing on a television screen and/or accessing other information received by the receiver.

Thus, in use, it is envisaged that the device can be held in the hand by the user and can be separated from a holder 10 for the same which can be provided to stand alone or may alternatively be provided as part of another piece of apparatus such as, for example, a broadcast data receiver. The user can then input the data which is required, such as for example, data indicating those products which they wish to purchase from a particular retail outlet, and they may do so as they move around the house with the device, while they are out of the house with the device, and so on. The device 2 can also be used when mounted on the holder 10 as shown in Figure 1. In any case, the data which is input is stored in the device and, when needed, the device is connected to a communications link so that the data can be downloaded to a retailer or other organisation as required via the telecommunications link directly or may be linked firstly to the broadcast data receiver and, from the same transferred via the telecommunications link connected to the same.

When not in use, the device will typically be required to be charged so that the power cell in the device is fully functional and all the

embodiment, is provided to utilize this telecommunications link by connecting and communicating with the broadcast data receiver.

Thus, in use, it is envisaged that in one embodiment the device 102 can be held in the hand by the user and separated from a holder for the same or a broadcast data receiver or, as shown in Figure 6 can be used in an in use position mounted in the holder 110. The user can then input and/or access the data which they require, such as for example, data indicating those products which they wish to purchase from a particular retail outlet, and they may do so as they move around the house, while they are out of the house and so on. In any case, the data which is input is stored and, when needed to use a communications link, typically via a broadcast receiver, they can connect the device to the same and download the data which has been input to the retailer from whom they would wish the products represented by the data to be obtained and supplied. In due course, the retailer can then provide the ordered products and without the need for the user to actually visit the retail outlet if they so wish.

When not in use, it is envisaged that the device will be held in the holder 110 as shown in Figure 7 and, when held in the holder, the power cell of the device can be recharged via connection between a recharger provided in the holder and the device. Thus, the holder can be provided with a mains power supply to allow the recharging to take place. In accordance with the invention, the holder is further provided with at least one speaker 112 and an amplification means, not shown.

When the device is held in the holder, a data communications link is formed between the device and the holder which allows data from the device which represents an audio signal, to pass to the amplification means and hence the speaker 112. This allows the

device and holder to have functionality, even when the device itself is regarded as being out of use. The device in this mode can be tuned to a particular frequency to receive a radio signal and the encoded data representing that signal can be decoded, processed and transmitted to the user via the speaker 112 in the holder 110.

Alternatively, audio data may be input to the device when the same is in use with the broadcast data receiver and the data is automatically recovered from the memory when the device is placed into the holder so that said audio data can then be generated. Yet further, when communication is made with a remote source, data, which can be both video and audio data, can be transmitted to the device and again the same can be accessed when the device is positioned in the holder, and in this embodiment it is envisaged that the display screen of the device will be used to generate the video data and the speaker in the holder is used to generate the audio data to the user, and it is envisaged that this will be of particular use for advertising material to display the same to the user via the device.

It is envisaged that the audio data decoding system will allow the device to have a wireless radio or MP3 capability and the use of the same in conjunction with the holder allows the capabilities to be fully exploited. In addition to the speaker or speakers, connection means 14 may be provided to allow headphones or other audio devices to be connected thereto.

Whereas, the present invention has been described in relation to the drawings attached hereto, it should be understood that other and further modifications, apart from those shown or suggested herein, may be made within the spirit and scope of this invention.